

## **CLAIMS**

What is claimed is:

1. A protecting medical-treatment chair with air-curtain shield comprising an air-curtain chair with a main-body and at least one set of air-suction and cleaning equipment which are connected to form an air filtration and circulation system to generate air-curtain shield and filtrate the air making it suitable for cyclic-use, and the said air-suction and cleaning equipment has an air suction inlet and an air discharging outlet through which when the air-suction and cleaning equipment is in operation, the air is sucked into the equipment for filtration and cleaning treatment, and then discharged from the air discharging outlet; wherein the said main-body of the air-curtain chair comprises a seat surface, a seat back and two hood-walls; the said seat back extends from the bottom at the rear edge of the seat surface upwardly and then horizontally to form a top-hood which, together with the hood-wall positioned on both sides of the seat back, forms a bag-shaped inner space inside the main-body of the said air-curtain chair; at the two corners along the front edge of the seat surface are the suction slots arranged in a manner symmetric to each other with an air suction tube connector installed at its bottom, and the air suction tube connector is connected to the air suction inlet of the said air-suction and cleaning equipment by means of an air suction tube; Inside the seat back and the top-hood is an air flow passage extended from the bottom of the seat back to the front edge of the top-hood with an air supply tube connector installed at the end of the bottom portion of the seat back which is connected to the air discharging outlet of the said air-suction and cleaning equipment by means of an air supply tube, and, at the bottom of the top-hood near the front edge is an air outlet which can generate an air-curtain shaped flow stream with a range covering at least the whole front edge of the said seat surface.
2. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 wherein an air outlet is located at the bottom of the said top-hood at the location corresponding to the air suction slot on the said seat surface.
3. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein along the opening of air outlet at the bottom of the top-hood are air flow guides which can make the air flow stream a downward lamina flow in vertical direction.
4. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein the air suction slot positioned at the corner of the said seat surface has outer width of slot opening greater than the inner width of the opening to form a hood-shaped suction nozzle.
5. A protecting medical-treatment chair with air-curtain shield as defined in claim 1

or claim 2 wherein the suction slots at the corners of the said seat surface are in "L" shape.

6. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein the air suction slots at the corners of the said seat surface are in "I" shape.
7. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein the air suction slots at the corners of the said seat surface are in rectangular shape.
8. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein the air suction slots at the corners of the said seat surface are installed on the armrests of the main-body of the said air-curtain chair, and the air suction and flow passage is formed by the inner cavity of the armrest.
9. A protecting medical-treatment chair with air-curtain shield as defined in claim 1 or claim 2 wherein the said air-suction and cleaning equipment is of medical level.